

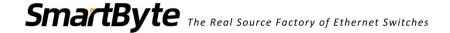
16*10/100/1000Base-T + 2*1G/2.5GBase-X SFP

LT-IS6318GP-2GX16GT



Features:

- > 16*10/100/1000Base-T RJ45 PoE, 2*1G/2.5GBase-X SFP
- Redundant power DC 44-57V input with polarity reverse/over-voltage/over-current protection
- > Support one digital output for relay alarm(terminal block Pin 5/6)
- ➤ Complies with IEEE802.3af PoE and IEEE802.3at PoE+ standard
- ➤ Layer 3 features: Support IPv4/IPv6 static routing, DHCP server
- Support Layer 2 management function: VLAN/VLAN Classification/QinQ/STP, RSTP,MSTP/Port Mirroring/DHCP/Multicast/ACL/IGMP/QoS/LLDP/802.1X/Dying Gasp/SFP DDM/IPV6 management/Web/PoE management/SNMP/Telnet/TFTP/Web upgrading
- > Support G.8032 ERPS protocol, recovery time ≤20ms
- Support 6KV surge protection and ESD: Air-15kV, Contact-8kV Protection
- > IP40 fan-less and Din-rail hardware design
- > Operation temperature: -40 °C ~+75 °C



Overview

The SmartByte LT-IS6318GP-2GX16GT is the highly reliable layer 2+ managed industrial PoE switch with 16-port 10/100/1000-T PoE and 2-port 1G/2.5GBase-X SFP slots. It complies with IEEE802.3af, IEEE802.3at standard PoE protocol, the Max power consumption can reach 30W (PoE+) per port. It supports ERPS redundant network and the self-recovery mechanism is less than 20ms on full load which allows you to scheme a reliable Ethernet network by building a redundant ring topology as your back-up solution. It also supports Layer 3 IPv4/IPv6 static routing features and powerful Layer 2 management and secure function, which all making them ideal for large-scale industrial networks.

LT-IS6318GP-2GX16GT is also a high cost-effective easy-to-use device, which provides essential industrial Ethernet networking function, including wide range power input 44-57VDC, redundant power design with polarity reverse/over-voltage/over-current protection, robust IP40 fan-less housing with Din-rail installation, wide operation temperature from -40°C to 75°C as well as high-level EMI/EMC capability. It is the best choice for heavy industrial factory, transportation, oil & gas, chemical, IP Surveillance and processing automation area where environmental conditions are harsh and crucial.

Technical specification

Model No.	LT-IS6318GP-2GX16GT	
Interface	Fiber ports	Copper RJ45 ports
	2	16
Ethernet	16*10/100/1000Base-T RJ45 PoE 2*1G/2.5GBase-X SFP	
Management port	1*RJ45 Console port (115200,8,N,1)	
Alarm port	One digital output for relay alarm, alarm relay current carry ability: 1A@24VDC	
	IEEE 802.3 10Base-T Ethernet	
	IEEE 802.3u 100Base-TX Ethernet	
	IEEE 802.3ab 1000Base-T Ethernet	
Standard	IEEE 802.3z 1000Base-X Ethernet	
Standard	IEEE802.3x Flow Control and Back Pressure	ressure
	IEEE 802.1D Spanning Tree Protocol	
	IEEE 802.1w Rapid Spanning Tree Protocol	
	IEEE 802.1Q VLAN	

	T	
	ITU-T G.8032 ERPS	
	IEEE 802.1X Port Authentication Network Control	
	IEEE 802.1ab LLDP	
	IEEE 802.3ad LACP	
	IEEE802.3af PoE	
	IEEE802.3at PoE+	
LED Indicators		
P (Power indicator)	Off: the device is power off or failed	On: the device power on is normal
S (System status indicator)	Blinking: device initialization	On: device on normal operation
	Off: ports link down	
1-16 (Copper ports indicators) Green	On: ports link up	
G.CCII	Blinking: data on TX/RX	
1-16 (PoE status indicators)	Off: PoE not working	
Yellow	On: PoE working	
	Off: ports link down	
17-18 (Fiber ports indicators) Green	On: ports link up	
	Blinking: data on TX/RX	
Power parameter		
	44-57VDC(802.3af)	
Input voltage	52-57VDC(802.3at)	
Land comment	redundant power input	
Input current	5.8A Max	
Total power consumption	Full loading without PoE ≤15W PoE power budget ≤ 240W	
Connector	Removable 6-pin terminal block, Pin 5	5-6 for relay alarm
Reverse polarity protection	Support	
Over-voltage protection	Support	
Over-current protection	Support	
Layer 2 functions		
	Support GE port aggregation	
Port aggregation	Support 2.5GE aggregation	
	Support static aggregation	

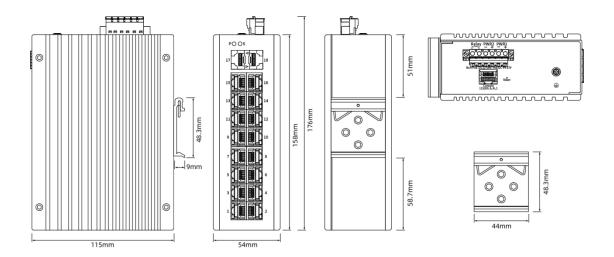
Support LACP dynamic aggregation Up to 64 aggregation groups and up to 8 ports per group Support IEEE802.3x flow control, Support interface counters, Support port isolation, Port mirroring (One-to-One, Many-to-One) Support loop detection(Port-based; VLAN-based) Support broadcast storm suppression(broadcast; unknown multicast; unknown unicast) Mac-address table Mac-address table Management Support dynamic Mac-address Management Support MAC limit based on port and VLAN Support MAC flapping based on port and VLAN Protocol Based VLAN Protocol Based VLAN Protocol Based VLAN Normal mode Fixed mode Forbidden mode Forbidden mode Forbidden mode Forbidden mode Forbidden mode Forbidden Mac Based VLAN LLDP LLDP (Link Layer Discovery Protocol) Support IEEE802.1D-STP Support IEEE802.1D-STP Support IEEE802.1S-MSTP Support IEEE802.1S-MSTP Support IEEE802.1S-MSTP Support IEEE802.1S-MSTP Support IEEE802.1S-MSTP Support IEE800.1S-MSTP Support IEE800.			
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Support G.8032 ERPS protocol, single ring, sub Ring and major ring Recovery time ≤20ms L2 Multicast IGMP snooping Support IGMP snooping Group address Support group address Security functions	Ring network protocol	Support IEEE802.1S-MSTP	
L2 Multicast IGMP snooping Support IGMP snooping Group address Support group address Security functions	Ring network protocol	Support G.8032 ERPS protocol, single ring, sub Ring and major ring	
IGMP snooping Group address Support IGMP snooping Support group address Security functions		Recovery time ≤20ms	
Group address Support group address Security functions	L2 Multicast		
Security functions	IGMP snooping	Support IGMP snooping	
· · · · · · · · · · · · · · · · · · ·	Group address	Support group address	
ACL IP Standard ACL	Security functions		
· · · · · · · · · · · · · · · · · · ·	ACL	IP Standard ACL	

	AAAC aada ad ACI
	MAC extend ACL
	IP extend ACL IPv6 ACL
	Support QoS Class, remarking
	Support SP, WRR queue scheduling
QoS	Ingress port-based rate-limit
	Egress port-based rate-limit
	Support policy-based QoS
	Port access control
802.1x	Mac-address access control
	RADIUS server
Port-security	Port-security
IP source guard	IP Port/MAC binding
ARP-check	Support ARP-check and ARP packet filtering for illegal users
Access control	Support Telnet/SSH/HTTP/HTTPS user access control
Management & Maintenance f	unctions
User Management	Support password protection Support user authorization management
SNMP	Supporting SNMP V1/V2C/V3 version
	Web Management
Web Management	Support HTTP V1.1
	Support HTTPS
CLI management	Console/Telnet command line management
RMON	Support RMON(Remote Monitoring) alarm
Firmware upgrade	Firmware upgrade
	Ping/Tracerout
Fault Detection	Dying gasp
	Support optical transceiver DDM function
Cable detection	Support copper port cable detection
	Support 802.3af/802.3at
	Support PD watchdog
PoE management	Support PoE priority management
	Support Max PoE power configuration for each port
	Support alarm waterline configuration

	Support reserved power configuration
NTP	Network Time Protocol
Syslog/Debug	Syslog/Debug Syslog send to three servers
Configuration import/export	Support FTP/TFTP remote import/export
Dual partition management	Support dual partition switching
Application Protocol Functions	
DHCP Snooping	DHCP snooping trust port Support remote-id/circuit-id configuration DHCP option-82
DHCP client	Support DHCP client
Telnet server	Support telnet server
Telnet client	Support telnet client
SSH server	Support SSH server
TACACS	Support TACACS(the terminal access controller accesses the control system)
sflow	Support network traffic analysis
TFTP	Support TFTP Client
Layer 3 functions	
ARP	ARP table aging
DHCP server	
IPv4 / IPv6	static routing
Switching features	
Switching capacity	42Gbps
Packet forwarding rate	62.5Mpps
MAC address table	16K
VLAN	4K
Buffer	12Mbit
Forwarding delay	<5us
Jumbo Frame	Support 10Kbytes

MDX/MIDX	Support
Watchdog	Support
Mechanical structure	
Case protection	IP40
Installation method	Din-rail
Dimension(W*D*H)mm	54*115*158mm
Weight	1.55 kg
Operating environment	
Operating temperature	-40℃~+75℃
Storage/transportation temperature	-40℃~+85℃
Relative humidity	Operation humidity: 10%-90%RH
Industrial Standard	Storage humidity: 5%-95%RH
EMS	Surge protection of power: IEC 61000-4-5 6KV/4KV (8/20us) Surge protection of Ethernet ports: IEC 61000-4-5 6KV/2KV (10/700us) RS: IEC 61000-4-3 80 MHz-1 GHz: 10 V/m EFT: IEC 61000-4-4 4K/2K CS: IEC 61000-4-6 10V ESD: IEC 61000-4-2 Contact: 8K; Air: 15K
EMI	FCC Part 15B Class A
Shock	IEC 60068-2-27
Free fall	IEC 60068-2-32
Vibration	IEC 60068-2-6
Certification	CCC/CE/UKCA/RoHS/REACH/FCC
MTBF	> 200,000 hours

Structure diagram



Order information

Model	Description
LT-IS6318GP-2GX16GT	L2+ Managed industrial PoE switch with 16*10/100/1000Base-T RJ45 PoE ports and 2*1G/2.5GBase-X SFP slots, complies with IEEE802.3af, IEEE802.3at standard, DC44-57V input, redundant dual power supply, Din-rail installation. Operation temperature: -40 $^{\circ}$ $^{\circ}$ +75 $^{\circ}$ C